



MARICOPA COUNTY
ENVIRONMENTAL SERVICES DEPARTMENT
AIR QUALITY DIVISION
1001 NORTH CENTRAL AVENUE
PHOENIX, ARIZONA 85004

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APPLICATION INSTRUCTIONS FOR THE AUTHORITY TO OPERATE AND/OR CONSTRUCT A SURFACE COATING OPERATION UNDER THE GENERAL PERMIT

Facilities that qualify for an Authority to Operate (ATO) or Construct under the Maricopa County General Permit for Surface Coating Operations must use this form for applying for an ATO. Using this application, you will obtain an ATO under this General Permit faster and at a lower cost than if applying for an individual source permit. Do not use this form for amending prior applications, for adding additional pieces of equipment at existing facilities, etc.

Complete the application by typing or printing legibly. If the application is for an existing facility that currently has a valid authority to operate under the spray coating general permit, no application fee is required. If the application is for initial coverage under the spray coating general permit, a fee of \$300 must be submitted with the application. If a Notice of Violation was issued for constructing and operating a new facility without a permit, an additional \$70 is due with the application for a total of \$370. The Department will send a billing to cover the annual administration fee.

This general permit covers facilities which are Surface Coating Operations meeting the following criteria:

- Coating the following: cans, coils, metal furniture, large appliances, fabric, film, plastic parts and products, paper, and vinyl, other metal parts and products, and/or the following coating operations: air-dried, baked, silicone release, and strippable booth,
- Coating in a manner such that the requirements of County Rule 315 are met,
- Not more specifically regulated by a County Rule, other than 336, within Rules 300 to 359 of Regulation III.

For example, this general permit does not cover the following operations:

Aerospace coating operations (Rule 348),
Architectural coating, including buildings and erected structures (Rule 335),
Marine vessel exterior refinishing,
Polyester coatings applied to polyester composites,
Printing and graphic arts coating (Rule 337),
Semiconductor manufacturing (Rule 338),
Coating a highway vehicle or mobile equipment (Rule 345),
Wood: Coating Wood Furniture (Rule 342); Coating Wood Millwork (Rule 346).

The following is not covered in the Surface Coating Section (Section A) of this general permit but may be covered in the Solvent Coating Section (Section B) of this general permit:

Cleaning: Volatile Organic Compound (VOC) loss from cleaning or stripping a surface for coating or other purpose that is regulated by Rule 331 and conducted in accordance with County Rule 331;

- Not utilizing VOC control devices,
- Not having any applicable New Source Performance Standards (NSPS) or Maximum Achievable Control Technology (MACT) requirements,
- Not conducting powder coating,
- Not using a burn off oven.

The following activities are exempt from meeting the requirements addressed in Section A., questions #8. and #9.:

- The spray coating of buildings or dwellings, including appurtenances and any other ornamental objects that are not normally removed prior to coating,
- The spray coating of facility equipment or structures which are fixed in a permanent location and cannot easily be moved into an enclosure or spray booth and which are not normally dismantled or moved prior to coating,
- The spray coating of objects which cannot fit inside of an enclosure with internal dimensions of 10'W X 25'L X 8'H,
- Enclosures and spray booths and exhausts located entirely in a completely enclosed building, providing that any vents or openings do not allow overspray to be emitted into the outside air,
- Any coating operations utilizing only hand-held aerosol cans.

The facility may also have fuel burning equipment, solvent cleaners, and abrasive blasting without forced air exhaust. To qualify for this general permit, the following limits must all be met:

- **Your use of coatings, solvents, and cleaning materials combined is expected to be less than 375 gallons per month and less than 4500 gallons per twelve month period,**
- If you have a small cold cleaning unit, it must meet the requirements in Section B of this application and must not be a vapor degreaser,
- If you have fuel burning equipment, it must meet the requirements in Section C of this application, each piece must be rated less than 10 Million BTU/hr, and you only burn natural gas, propane, or butane,
- If you have abrasive blasting equipment it must meet the requirements in Section D of this application and any enclosure blast booth must not use forced air exhaust.

If it is found that your facility does not qualify for coverage under this general permit, the application will be forwarded for review as an individual source permit. If you are required to obtain an individual source permit, you will be billed later for any additional applicable permit fees.

In the application, items 1 through 14 and the Technical Section(s) which apply to your facility must be completed. Sketch or attach a sketch to show the location of the paint booths, solvent tanks, abrasive blast equipment, and heating units. If necessary, attach additional sheets to the application to provide all required information. Obtaining this ATO through fraud or misrepresentation may subject you to civil and criminal penalties.

The Maricopa County Air Pollution Control Rules and Regulations are available at the above address. To obtain a copy, contact the Department for information and costs or download them from our Internet site <http://www.maricopa.gov/sbeap>. Small businesses may contact the Small Business Environmental Assistance Program at (602) 506-6750 for assistance in completing the application package. They may also be contacted by email through the web site listed above and are located at the following address:

Maricopa County Environmental Services Department
Small Business Environmental Assistance Program
1001 N. Central Ave, Suite 500
Phoenix, Arizona 85004



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ENVIRONMENTAL SERVICES DEPARTMENT
AIR QUALITY DIVISION
1001 North Central Avenue
Phoenix, Arizona 85004
(602) 506-6094
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DATE RECEIVED

LOG NUMBER

7/14/03

APPLICATION FOR THE AUTHORITY TO OPERATE AND/OR CONSTRUCT A SURFACE COATING OPERATION UNDER THE GENERAL PERMIT

(As required by A.R.S. §49-480 and Maricopa County Air Pollution Control Regulations, Rule 200)

READ INSTRUCTIONS FIRST. ALL APPLICANTS MUST COMPLETE ITEMS 1 THROUGH 15. ALSO COMPLETE EACH APPLICABLE SECTION A THROUGH D.

1. BUSINESS NAME:		DO NOT WRITE IN THIS SPACE
2. ADDRESS OF SITE:		
AZ ZIP:		
3. CONTACT AT SITE 3a. TELEPHONE AT SITE ()		
4. TYPE OF OWNERSHIP <input type="checkbox"/> Corporation <input type="checkbox"/> Sole Owner <input type="checkbox"/> Other -- Specify: <input type="checkbox"/> Partnership <input type="checkbox"/> Government		
5. NAME AND MAILING ADDRESS OF OWNERSHIP:		
6. TELEPHONE OF OWNERSHIP: () 6a. CONTACT AT OWNERSHIP		
7. SEND ALL CORRESPONDENCE INCLUDING INVOICE AND PERMIT TO: COMPANY NAME: ADDRESS: CITY: STATE: ZIP CODE: ATTN:		
8. SIC (STANDARD INDUSTRIAL CLASSIFICATION) CODE(S):		9. EXISTING AIR POLLUTION CONTROL PERMIT NUMBER FOR THIS SITE, IF ANY:
10. PROVIDE A BRIEF DESCRIPTION OF BUSINESS/PROCESS AT SITE:		
11. OPERATING SCHEDULE: HOURS PER DAY DAYS PER WEEK WEEKS PER YEAR		
12. PROJECTED DATE OF COMPLETION (IF NEW EQUIPMENT):		

13. THE AUTHORIZED CONTACT PERSON REGARDING THIS APPLICATION IS:

NAME TELEPHONE
TITLE COMPANY

14. I CERTIFY THAT I AM FAMILIAR WITH THE OPERATIONS AND EQUIPMENT REPRESENTED ON THIS APPLICATION AND THE STATEMENTS AND INFORMATION PROVIDED HEREIN ARE TRUE, ACCURATE, AND COMPLETE BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY.

TYPE OR PRINT NAME AND TITLE
OF RESPONSIBLE OFFICIAL

DATE SIGNATURE OF OWNER OR
RESPONSIBLE OFFICIAL OF BUSINESS

15. **SITE DIAGRAM:** Draw a site layout or attach a drawing of equipment locations at the site with approximate distances to property lines. specifically show paint booths and other spray coating areas, mixing stations, gun cleaner location(s), and waste storage areas, also, if applicable, show solvent cleaner location, fuel burning equipment, and abrasive blasting equipment.



SECTION A. SURFACE COATING OPERATION

1. When conducting surface coating meeting the criteria on the first page of this application and in accordance with County Rules 315 and 336, will the facility either:

- a. Limit the maximum volatile organic compound (VOC) content in its coatings, as applied, in accordance with the following requirements in Table 1?

Yes ☐ No ☐

Please also answer yes or no for each of the following:

If you conduct the following type of surface coating :

Table 1

Type of Surface Coating	LIMITS AS APPLIED* Pounds per gallon (grams/liter)	Will the facility comply with this limit? All sections must be marked.	
Can Coating			
Sheet Basecoat (Exterior & Interior) & Overvarnish	2.8 lb/gal (340 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2-piece Can Exterior (Basecoat & Overvarnish)	2.8 lb/gal (340 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Two and Three-Piece Can Interior Body Spray	4.2 lb/gal (510 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Two-Piece Can Exterior End (Spray or Roll Coat)	4.2 lb/gal (510 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Three-Piece Can Side-Seam Spray	5.5 lb/gal (660 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
End Sealing Compound	3.7 lb/gal (440 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Can Printing Ink	2.5 lb/gal (300 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Coil Coating (any coat)	2.6 lb/gal (310 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Metal Furniture Coating	3.0 lb/gal (360 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Large Appliance Coating	2.8 lb/gal (340 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Other Metal Parts & Products Coating (As defined in County Rule 336 §231)			
The following includes Non-adhesive Coating, Adhesive, Adhesive Primer, Caulking, and Beaded Sealants:			
Air-Dried Coating	3.5 lb/gal (420 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Baked Coating (above 200°F (93°C))	3.0 lb/gal (360 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Silicone Release Coating: Baked or Air-Dried	3.5 lb/gal (420 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Fabric Coating	2.9 lb/gal (350 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Film Coating	2.9 lb/gal (350 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Coating Plastic Parts & Products That are not Defined as Flexible	3.5 lb/gal (420 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Coating Flexible Plastic Parts & Products			
Primer	4.1 lb/gal (490 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Color Topcoat	3.8 lb/gal (450 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Basecoat/Clear Coat (Combined System) - Limit for either coat	4.5 lb/gal (540 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>

Paper Coating, including Adhesives	2.9 lb/gal (350 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Vinyl Coating (Coating on Vinyl)	3.8 lb/gal (450 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Strippable Booth Coatings	2.0 lb/gal (240 g/l)	Yes <input type="checkbox"/>	No <input type="checkbox"/>

* VOC content minus exempt compounds: is the same as VOC Content Minus Exempt Evaporating Components, also known as " The EPA Method 24 VOC Content" on manufacturer's data sheets.

$$\text{VOC Content Minus Exempt Compounds} = \frac{W_s - W_w - W_{es}}{V_m - V_w - V_{es}}$$

Using consistently either English or metric measures in the calculations,

where: W_s = weight of all volatile material in pounds (or grams), including VOC, water, non-precursor organic compounds and dissolved vapors

W_w = weight of water in pounds (or grams)

W_{es} = weight of all non-precursor compounds in pounds (or grams)

V_m = volume of total material in gallons (or liters)

V_w = volume of water in gallons (or liters)

V_{es} = volume of all non-precursor compounds in gallons (or liters)

or,

- b. Qualify for an exemption under County Rule 336 §305?

Yes ☐ No ☐

To qualify for this general permit you must answer yes to 1.a. or 1.b..

2. For the applications of all surface coating containing more than 2 pounds of VOC per gallon (240 g/L) minus exempt compounds, will the method(s) of application be:

- a. a low pressure spray gun? Yes ☐ No ☐

- b. an electrostatic system? Yes ☐ No ☐

- c. a system that atomizes principally by hydraulic pressure, including "airless" and "air assisted airless"?

Yes ☐ No ☐

- d. non-atomizing or non-spraying application methods, such as but not limited to dipping, rolling, or brushing?

Yes ☐ No ☐

- e. a method pre-approved by the Administrator of the Federal EPA and the Control Officer as having a transfer efficiency of 65% or greater?

Yes ☐ No ☐

1. If the method is pre-approved, is the method attached?

Yes ☐ No ☐

2. Are both approval letters attached?

Yes ☐ No ☐

To qualify for this general permit you must answer yes to at least one category a. - e. of #2. If #2.e. is answered yes, you must answer yes to both #2.e.1. and #2.e.2..

3. When using VOC-containing material for the cleanup of application equipment, will you disassemble any spray gun and other application equipment and clean it in:

- a. a container which remains covered at all times, except when the application equipment is being handled in the container, or transferred into or out of the container?

Yes ☐ No ☐

or,

- b. a commercially -sold gun cleaning machine which shall be operated and maintained according to manufacturer's or distributor's instructions?

Yes ☐ No ☐

To qualify for this general permit you must answer yes to 3.a. or 3.b..

4. Does the VOC-solvent used to clean coating application equipment, as used, have either,
a VOC-vapor pressure below 35 mm Hg at 20° C (68° F),
or for sprayless equipment,

a solvent that has, at 20° C (68° F) a total VOC vapor pressure above 35mm Hg for cleaning coating-application equipment, but only if such application equipment does not use spray devices and the same principal solvent is used for cleaning as is used in the coating?

Yes ☐ No ☐

To qualify for this general permit you must answer yes to #4.

5. a. Will you cover and keep covered each VOC-containing material when not in use?

Yes ☐ No ☐

- b. Will you store finishing and cleaning materials in closed or covered leak-free containers?

Yes ☐ No ☐

- c. Will you store all VOC containing materials intended for disposal including, but not limit to rags, waste coatings, waste brushes, waste rollers, waste applicators, waste solvents, and their residues, in closed leakfree containers which are legibly labeled with their contents and which remain covered when not in use?

Yes ☐ No ☐

To qualify for this general permit you must answer yes to #5.a., b. and c..

6. Will the total of all coatings, reducers, solvents and cleaning materials used at the facility be less than 375 gallons per month and less than 4,500 gallons per year?

Yes ☐ No ☐

To qualify for this general permit you must answer yes to #6.

7. DESCRIBE FACILITY(IES) FOR APPLYING COATINGS (BOOTH(S)? ENCLOSURES). *ATTACH MANUFACTURER'S SPECIFICATIONS IF HELPFUL.*

#	ENCLOSURE OR BOOTH SIZE (LxWxH)	DATE OF INSTALLATION	DIFFERENTIAL PRESSURE MEASUREMENT DEVICE (Yes or No)	EXHAUST FAN (C.F.M.)	TYPE OF FILTER SYSTEM & EFFICIENCY (FILTER EFFICIENCY MUST BE AT LEAST 92%)
1					
2					
3					

8. Will all spraying operations be done in such a manner that one of the following conditions (#8.a. or #8.b.) is met:

- a. If equipment is operated in enclosures located outside a building will spray coating equipment be operated inside an enclosure which has at least three sides a minimum of eight feet in height and able to contain any object or objects being coated?

Yes ☐ No ☐

1. If the enclosure is three-sided will spray be directed in a horizontal or downward pointing manner so that overspray is directed at the walls or floor of the enclosure?

Yes ☐ No ☐

2. If the enclosure is a more complete enclosure, such as three sides and a roof or a complete enclosure, will spray be directed into the enclosure so that the overspray is directed away from any opening in the enclosure?

Yes ☐ No ☐

3. For both of #1. and #2. above, will spraying be conducted within three feet of any open end and/or within two feet of any open top of the enclosure?

Yes ☐ No ☐

If #8.a. is checked yes, to qualify for this general permit you must answer no to #8.a.3. and answer yes to either #8.a.1. or #8.a.2..

- b. If equipment is operated with forced air exhaust vented directly outside will the spray booth:

1. have a filtering system with an average overspray removal efficiency of at least 92% by weight for the type of material being sprayed?

Yes ☐ No ☐

2. have a filtering system operating in such a manner that the filters have no gaps, sags or holes present and all exhaust discharged through the filters into the atmosphere?

Yes ☐ No ☐

3. if utilizing a water curtain, waterfall or other means to capture particulates in a liquid medium, effectively remove at least 92% of the overspray and be operated in a manner consistent with the manufacturer's specifications to achieve such efficiency for the type of material being sprayed?

Yes ☐ No ☐

If #8.a. is not checked yes, to qualify for this general permit you must answer yes to either: #8.b.1. and #8.b.2., or yes to #8.b.3..

9. All painting operations having forced air exhaust must have the exhaust discharge directly up into the air. Will all exhaust stacks, taking any rain cap or other similar devices into account, discharge vertically into the air?

Yes ☐ No ☐

If #8.a. is not checked yes, to qualify for this general permit you must answer yes to #9.

SECTION B. SOLVENT CLEANING

Complete this section ONLY if you have a cold cleaning operation. Do not use this section for a gun cleaning machine which is covered in Section A of this application. Attach manufacturer's equipment specifications/literature whenever useful. Use a separate sheet for each different type of cleaning device. If this Section does not apply to the facility, mark N/A across the page.

1. DO YOU HAVE AN UNHEATED, NON-CONVEYERIZED COLD CLEANING UNIT ?

Yes ☐ No ☐

IF SO, WHAT TYPE DO YOU HAVE?

- a) COLD CLEANER (NO BOILING) WITH REMOTE RESERVOIR?

Yes ☐ No ☐

- b) COLD CLEANER (NO BOILING) WITHOUT REMOTE RESERVOIR?

Yes ☐ No ☐

NOTE: If you have a vapor degreaser, conveyerized degreaser, or other type of degreaser, your facility is not eligible for this General Permit. Submit a Non-Title V Permit Application. If you have a degreaser, #1. must be checked yes and either, #1.a) or #1.b) must be checked yes to qualify for this general permit.

2. MANUFACTURER: _____

3. MODEL: _____

4. THIS QUESTION APPLIES IF YOU WILL HAVE A DEGREASER WITH A REMOTE RESERVOIR.

- a. Will the cleaner have a sink-like work area or basin which slopes toward the drain and which does not allow the solvent to pool?

Yes ☐ No ☐

- b. Will the sink/basin area have a solvent return drain of no more than 15.5 square inches?

Yes ☐ No ☐

- c. Will the cleaner have a means for draining cleaned parts so that the drained solvent is returned to the reservoir?

Yes ☐ No ☐

If #1.a) is checked yes, to qualify for this general permit you must check yes to #4.a), b), and c).

5. THIS QUESTION APPLIES IF YOU WILL HAVE A DEGREASER WITHOUT A REMOTE RESERVOIR.

- a. Will the cleaner have a freeboard height of at least 6 inches? (The freeboard height is the distance between the surface of liquid and the top of the tank.)?

Yes ☐ No ☐

- b. Will the freeboard zone have a permanent, conspicuous mark that shows the maximum allowable solvent level?

Yes ☐ No ☐

- c. Will the cleaner have a cover that prevents solvent vapors from escaping into the atmosphere when the cleaner is not being used?

Yes ☐ No ☐

- d. Will the cleaner have and use an internal drainage rack or other assembly in the freeboard space that returns all dripping solvent back into the hold of the cleaner?

Yes ☐ No ☐

If #1.b) is checked yes, to qualify for this general permit you must check yes to #5.a), b), c), and d).

6. SOLVENT INFORMATION:

- a. The solvent used must be at least 95% water or else the vapor pressure of the solvent must be no greater than 2 millimeters of mercury at 68 ° F (20 ° C) until October 31, 2001 and no greater than 1 mm of mercury after November 1, 2001. Will the solvent used by the facility meet these requirements?

Yes ☐ No ☐

To qualify for this general permit you must check yes to #6.a).

- b. Name of solvent to be used and expected quantity of solvent to be purchased annually. Include a material safety data sheet (MSDS) for the solvent to be used.

NAME: _____ QUANTITY: _____ GAL/YEAR

- c. Quantity and disposal method of any waste solvents:

Disposal method: _____

Amount expected to be disposed of: _____ GALLONS/YEAR

If waste solvent is redistilled on site, provide information on the still, including manufacturer's literature.

SECTION C. FUEL BURNING EQUIPMENT

To qualify for coverage under the General Permit, each piece of fuel burning equipment must have a rating of less 10 Million BTU/Hr. (Do not include fuel burning equipment less than 300,000 BTU/Hr.) Furthermore, the combined total for all fuel burning equipment must be less than 60 million BTU/Hr. The only fuels to be used are natural gas, propane and butane. Turbines and internal combustion engines are not eligible. However, facilities having internal combustion engines that serve only as emergency standby generators, which are less than 260 horsepower, are still eligible for coverage of fuel burning equipment under the General Permit. If this Section does not apply to the facility, mark N/A across the page.

GUIDE TO FILLING OUT THE TECHNICAL SECTION:

EQUIPMENT DESCRIPTION: Make, model, and type (for example boiler, heater etc...)
INSTALLED OR PROPOSED: Is the equipment already installed or proposed for future installation?
GROSS INPUT RATING: This is the heat input rating for the unit, in BTU/Hr and is usually found on a plate located on the side of the unit. Maintenance personnel may be able to assist in locating this information.

1. Will the only fuels used in the fuel burning equipment be natural gas, propane or butane?

Yes ☐ No ☐

2. Describe each piece of fuel burning equipment completely:

EQUIPMENT DESCRIPTION (make, model, type)	INSTALLED OR PROPOSED	NUMBER OF UNITS	GROSS INPUT RATING (EACH) (BTU/Hr)	GROSS INPUT RATING SUBTOTAL (3 rd column x 4 th column)
TOTAL GROSS INPUT HEAT RATING (SUM OF THE LAST COLUMN) (MUST BE LESS THAN 60,000,000 BTU/Hr)				

SECTION D. ABRASIVE BLASTING EQUIPMENT

1. If you conduct abrasive blasting, will you not discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any one-hour period which is a shade or density darker than 20 percent opacity?

Yes ☐ No ☐
2. If you conduct abrasive blasting, will you utilize at least one of the following control measures for all abrasive blasting:
 - a) confined blasting without forced air ventilation,

Yes ☐ No ☐
 - b) wet abrasive blasting, hydroblasting, or

Yes ☐ No ☐
 - c) the use of a California Air Resources Board (CARB) certified abrasive blasting media in dry, unconfined blasting operations provided that all the following conditions are met?
 - 1) Only an abrasive(s) on the most recent CARB certification list may used in the abrasive blasting process.
 - 2) Blasting is performed only on a metal substrate.
 - 3) The abrasive blasting medium is used only once.
 - 4) The existing paint on the surface to be abraded is lead free (i.e. lead content < 0.1%).
 - 5) Opacity limits of Rule 312 and these Permit Conditions are adhered to.
 - 6) The object to be blasted exceeds 8 feet in any dimension or the surface to be blasted is situated at its permanent location.
 - 7) Blasting is not performed at ground level on a surface which may be disturbed by the process and contribute to particulate emissions (e.g. unpaved ground).

Yes ☐ No ☐